

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017122 A2

(51) International Patent Classification⁷: C12N

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(21) International Application Number:
PCT/US2004/026437

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(22) International Filing Date: 12 August 2004 (12.08.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

[Continued on next page]

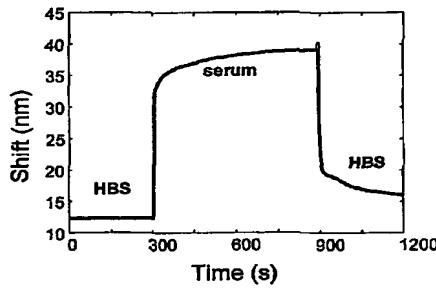
(30) Priority Data:
60/494,389 12 August 2003 (12.08.2003) US

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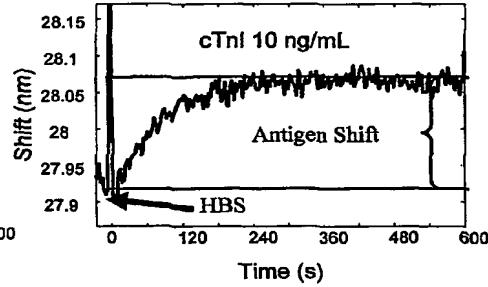
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(54) Title: BIOCOMPATIBLE LINKERS FOR SURFACE PLASMON RESONANCE BIOSENSORS



A



B

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(57) Abstract: A method of coating an SPR biosensor specific for an analyte to reduce protein fouling, the method has the steps of providing an SPR biosensor, providing a solution of 11-mercaptopoundecanol; incubating the SPR biosensor in the 11-mercaptopoundecanol solution to form a self-assembling monolayer (SAM); incubating the SPR with SAM in a solution of epichlorohydrin and diglyme; next incubating the SPR in ethanolamine; preparing a solution of EDCNHS and a biocompatible polymer; incubating the SPR from ethanolamine in the EDC/NHS/polymer solution; providing a ligand specific for the analyte in a solution; incubating the polymer-coated SPR in the ligand solution to permit the ligand to react with the polymer-coated SPR; washing the ligand-coated SPR to remove unreacted ligand, thereby providing an SPR capable of reacting with the analyte. Another method replaces the solution for the SAM layer with a solution of MHA or NHS-MHA with HT, and attaches the ligand to the resulting SAM layer.



Published:

— without international search report and to be republished upon receipt of that report

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